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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,672	05/21/2004	James W. Adkisson	BUR920040002US1	3671
23550	7590	11/05/2008	EXAMINER	
HOFFMAN WARNICK LLC			MERANT, GUERRIER	
75 STATE STREET				
14TH FLOOR			ART UNIT	PAPER NUMBER
ALBANY, NY 12207			2117	
			NOTIFICATION DATE	DELIVERY MODE
			11/05/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOCommunications@hoffmanwarnick.com

Office Action Summary	Application No.	Applicant(s)
	10/709,672	ADKISSON ET AL.
	Examiner	Art Unit
	Guerrier Merant	2117

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 06/19/08.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) _____ is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Final Action

Response to Amendment

1. Applicant's arguments/amendment, filed 06/19/08, have been fully considered but they are not persuasive.

Response to Arguments

2. As per the 35 U.S.C. 101 rejections:

In view of the paragraph [0022] stating "it is understood that the systems...can be implemented in hardware, software, or a combination of hardware and software." The Applicant argued that the specification does not limit the claimed system to software per se. The Examiner respectfully disagrees because the claimed elements (e.g. defect table, fault isolation) of the system are not clear enough to be considered as physical part of a device.

3. As per the rejections of claims 1-20: The Applicant argued that the prior arts of record fail to teach inputting suspected faulty device features and comparing suspected faulty device features with previously studied features. The Examiner respectfully disagrees. **Shimono (US 6,308,293 B1)** teaches a fault diagnosis comprising teach inputting suspected faulty device features and comparing suspected faulty device features with previously studied features (e.g. col. 1, lines 38-65). Therefore, the prior arts of record implicitly teach the limitations argued by the Applicant.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claim 1, the specification (see [0022]) describes the system as software per se, which is a non-statutory subject matter.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morioka et al. (US 6,611,728) in view of Shimono (US 6,308,293 B1).

Claims 1, 9, 10, 15 and 18-20: Morioka et al substantially teaches a defect table (e.g. item 111, fig. 1) that associates previously studied features with known failures (e.g. col. 8, lines 36-62); and a fault isolation system that compares faulty device features with the previously studied features listed in the defect table in order to identify causes of the fail (e.g. col. 9, lines 9-30 & col. 11, lines 17-34). But Morioka et al fails to explicitly teach inputting suspected faulty device features and comparing suspected

faulty device features with previously studied features. However, Shimono teaches a fault diagnosis comprising teach inputting suspected faulty device features and comparing suspected faulty device features with previously studied features (e.g. col. 12, lines 38-65). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to implement the teaching presented in the prior arts with the one taught by Shimono in order to locate and identify faults.

7. Claims 2-4, 6, 8, 11-13 and 17: Morioka et al and Shimono teach a diagnosis system as in claims 1, 9, and 15 above, wherein the previously studied features are selected from the group consisting of: net names, instance names, cell names, physical attributes, logical attributes, presence of a feature, and absence of a feature (col.20, lines 45-67 & col. 11, lines 14-34; Morioka et al.).

8. Claim 5: Morioka et al and Shimono teach a diagnosis system as in claim 1 above, wherein the simulation program utilizes device logic and operational logs to identify faulty device features (e.g. col. 14, lines 20-31- Shimono).

9. Claims 7, 14, and 16: Morioka et al and Shimono teach a diagnosis system as in claims 1, 9, and 15 above, further comprising a table update system for maintaining and updating the defect table (col. 23, lines 15-26, Fig. 30; Morioka et al.).

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Exr. Merant Guerrier whose telephone number is (571) 270-1066. The examiner can normally be reached Monday through Thursday from 10:30 a.m. to 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis Jacques, can be reached on (571) 272-6962. Draft or Informal faxes, which will not be entered in the application, may be submitted directly to the examiner at (571) 270-2066.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

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more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Guerrier Merant
10/10/08

/JACQUES H LOUIS-JACQUES/
Supervisory Patent Examiner, Art Unit 2100